

ABSTRACT OF THE DISCLOSURE

There is provided a current collector for use in a secondary battery on which active material ^{coated on} coating both sides of a metal foil are difficult to drop out.

- 5 The metal foil is provided with a large number of ^{penetrating} ~~penetrated~~ holes, ^{the} ~~periphery of the penetrated holes~~ ^{which are} is formed into a complicated shape, and active material, binder, etc. are intruded ^{on} ~~to~~ each periphery, whereby the active material, etc. ^{coated on} ~~coating~~ both sides of the current collector consisting of the metal foil are
- 10 prevented from dropping out. An area S of the ^{penetrating} ~~penetrated~~ holes is in the range of 0.05 to 0.50 mm². ~~Supposing that a periphery length of the penetrated hole is M, and a periphery length of a virtual circle having the area S of the penetrated hole is N,~~
- 15 a value M/N is in the range of 1.30 to 100. The current collector having such a large number of ^{penetrating} ~~penetrated~~ holes is obtained by passing a metal foil without ^a ~~hole~~ through between a concavo-convex roll having a large number of convex parts and a smoothing roll. If any burr is produced at each periphery edge of the ^{penetrating} ~~penetrated~~ holes, the current collector is further caused to pass
- 20 through between a pair of metal smoothing rolls, whereby the burr produced on each periphery edge of the ^{penetrating} ~~penetrated~~ holes can be removed.